



Chemical and Biological Defense Information Analysis Center

The Chemical and Biological Defense Information Analysis Center (CBIAC) is one of the US Department of Defense (DoD) IACs.

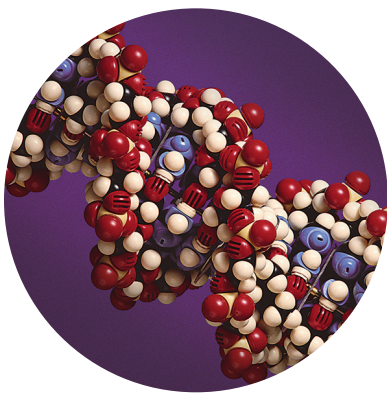
CBIAC is operated by Battelle Memorial Institute, Columbus, OH, under contract to the Defense Technical Information Center (DTIC), and supports DoD, other federal agencies and their contractors, state and local governments, and emergency responders. CBIAC provides information retrieval and analysis by professionals with expertise in the scientific, technical, and operational areas of Chemical Biological Defense (CBD) and homeland security and by Technical Area Tasks (TATs) through our laboratories, test facilities, data centers, and knowledge-management solutions.

The threat from Chemical, Biological, Radiological, and Nuclear (CBRN) weapons has been clearly identified by DoD as including biological weapons; viral, bacterial, rickettsial, and toxic agents; potentially new or genetically engineered agents; emerging infectious diseases; and radiological and nuclear weapons, including *dirty bombs*. In its Annual Report to Congress in May 2004, DoD advised that “The unique physical, toxicological, destructive, and other properties of each type of CBRN threat requires that operational and technological responses be tailored to the threat and to the diverse requirements of military operations supporting national security and homeland security missions.” *Department of Defense Chemical, Biological, Radiological, and Nuclear Defense Program Annual Report to Congress, May 2004.*

The threat from CBRN weapons is comprised of a complex variety of chemical weapons—nerve, blood, blister, choking agents, toxic industrial chemicals, and novel threat agents—and is complicated by the numerous potential means of delivering these weapons—bombs, spray devices, missiles, or novel delivery devices. In addition, more than 20 states and several non-state organizations may currently have or may be pursuing CBRN weapons capabilities that could pose threats to US forces operating abroad or within the United States.

CBIAC is a one-stop source: for CBD and homeland security support, for comprehensive CBD information, and for CBD technical and operational solutions. CBIAC’s scope includes the following:

CBIAC



- Analysis of Manufacturing Processes for Nuclear, Biological, and Chemical (NBC) Defense Systems
- Chemical & Physical Properties of CBD Materials
- Combat Effectiveness
- Counter-Proliferation
- Counter-Terrorism
- Defense Conversion & Dual-Use Technology Transfer
- Domestic Preparedness & Homeland Security
- Environmental Fate & Effects
- International Technology Proliferation & Arms Control
- Medical Effects & Treatment
- NBC Survivability
- Smoke & Obscurants
- Toxic Industrial Chemicals & Toxic Industrial Materials
- Treaty Verification & Compliance
- Warning & Identification

CBIAC's Core Program acquires, generates, processes, analyzes, synthesizes, and disseminates CBD and homeland security information for scientific, technical, and operational applications; provides a robust current awareness program through newsletters and a Web site; and provides a responsive and comprehensive inquiry and referral service to our users. CBIAC's repository contains more than 83,000 documents and its bibliographic database holds more than 125,000 records. CBIAC TATs provide a quick,

convenient, and responsive contract vehicle for independently funded analytical and/or technical efforts. TATs provide access to technical expertise and facilities for CBD and for Department of Homeland Security (DHS) technical work. Example TAT areas are:

- Information Collection & Compilation
- Hardware Development
- Laboratory Studies & Surety Work
- Design & Development of Models, Simulations & Databases
- Technical Consulting
- Training & Exercises
- Conferences, Symposia & Working Groups
- Engineering Design, Prototyping & Low-Rate Production

CBIAC's Knowledge Management & Development (KM&D) Program collects, analyzes, synthesizes, and disseminates CBD and homeland security scientific, technical, and operational knowledge to meet specific requirements. Our expertise in developing databases, applications, and CBD content enables us to provide CBD content in appropriate electronic formats, extract and organize technical information, and provide electronic dissemination.

KM&D TATs offer the following:

- Authoritative CBD historical, scientific, technical, and operational information analysis
- Searchable, interactive CBD information analysis and retrieval systems
- Expertise in CBD content development for innovative decision-making tools

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